

ABSTRACT

A medical device responsive to a generating field has a body and a position sensor at a portion of the body. The position sensor has a core made of a Wiegand effect material and a winding circumferentially positioned around the core. The position sensor receives the generated field and provides signals that determine location coordinates of the portion of the body. The position sensor maintains accuracy of the location of the portion of the body \leq equal to 1mm at temperatures greater than 75 °C.